



RECEIVED

FEB 26 2004

TECHNOLOGY CENTER R0700

SHEET 1 OF 3

FORM PTO-1449

INFORMATION DISCLOSURE  
CITATION IN AN APPLICATIONDOCKET NUMBER  
FGT 394 (202-0407)APPLICATION NUMBER  
10/064,016APPLICANTS  
David Karl Bidner and Gopichandra SurnillaFILING DATE  
June 4, 2002GROUP ART UNIT  
3747

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
HHH	4,046,126	09-1977	Takemoto			
	4,051,673	10-1977	Masaki			
	4,172,434	10-30-1979	Coles			
	4,550,704	11-1985	Barho et al.			
	5,727,522	03-1998	Otani et al.			
	6,345,496	02-2002	Fuwa et al.			
	6,467,259	10-2002	Surnilla et al.			
	2001/0015065	08-23-2001	Ide			
	6,550,240	04-2003	Kolmanovsky et al.			
	6,539,784	04-2003	King et al.			
HHH	5,179,924	01-1993	Manaka			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
HHH	1496605	12-30-1977	GB				
I	62-247176	10-28-1987	JP				X
I	2283111	04-26-1995	GB				
HHH	07-035016	02-03-1995	JP				X

## OTHER DOCUMENTS

EXAMINER	HA1 HUYNH	DATE CONSIDERED	8/23/05
----------	-----------	-----------------	---------

Best Available Copy



RECEIVED  
FEB 26 2004  
TECHNOLOGY CENTER R3700

SHEET 2 OF 3

FORM PTO-1449		DOCKET NUMBER FGT 394 (202-0407)		APPLICATION NUMBER 10/064,016		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANTS David Karl Bidner and Gopichandra Surnilla				
		FILING DATE June 4, 2002		GROUP ART UNIT 3747		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
H/H/H	4,690,116	09-01-1987	Takahashi			
	6,023,929	02-15-2000	Ma			
	4,305,249	12-15-1981	Schmid et al.			
	5,672,817	09-1997	Sagisaka et al.			
	6,276,138	08-2001	Welch			
	6,305,344	10-2001	Perry			
	5,375,415	12-27-1994	Hamburg et al.			
	5,267,548	12-07-1993	Rosenzopf et al.			
	5,245,978	09-21-1993	Orzel			
	5,628,299	05-1997	Marzonia et al.			
H/H/H	6,615,804	09-2003	Matthews et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
H/H/H	2090331A		GB			
OTHER DOCUMENTS						
EXAMINER	H/A1 HUYNH		DATE CONSIDERED 8/23/05			



RECEIVED  
FEB 26 2004  
TECHNOLOGY CENTER R3700

SHEET 3 OF 3

FORM PTO-1449		DOCKET NUMBER FGT 394 (202-0407)		APPLICATION NUMBER 10/064,016		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANTS David Karl Bidner and Gopichandra Surnilla				
		FILING DATE June 4, 2002		GROUP ART UNIT 3747		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
H/H	5,483,941	01-1996	Cullen et al.			
	6,244,242	06-2001	Grizzle et al.			
	5,437,253	08-1995	Huffmaster et al.			
	5,492,094	02-1996	Cullen et al.			
	6,116,213	09-2000	Yasui et al.			
	6,324,835	12-2001	Surnilla et al.			
	6,327,850	12-2001	Yasui et al.			
	6,505,464	01-2003	Isobe et al.			
	2003/0221664	12-2003	Surnilla			
	5,647,207	07-1997	Grotjahm et al.			
	6,543,219	04-2003	Surnilla			
H/H	5,979,413	11-1999	Ohnuma et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
EXAMINER HAI HUYNH			DATE CONSIDERED 8/23/05			

SHEET 1 OF 2

FORM PTO-1449		DOCKET NUMBER FGT 394 (202-0407)		APPLICATION NUMBER 10/064,016			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANTS David Karl Bidner and Gopichandra Surnilla					
		FILING DATE June 4, 2002		GROUP ART UNIT 3747			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.	
HHT	4,134,261	01-16-1979	Iizuka et al.				
	4,207,855	06-1980	Phillips				
	4,467,602	08-28-1984	Iizuka et al.				
	4,860,716	08-1989	Deutschmann				
	5,496,228	03-05-1996	Takata et al.				
	5,778,666	07-1998	Cullen et al.				
	5,930,992	08-1999	Esch et al.				
	5,950,603	09-1999	Cook et al.				
	6,014,963	01-2000	Narita				
	6,158,218	12-2000	Herold et al.				
HHT	6,161,531	12-2000	Hamburg et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
HHT	10107158 A1	08-2001	DE				X
OTHER DOCUMENTS							
EXAMINER HAI HUYNH			DATE CONSIDERED 8/23/05				

RECEIVED  
NOV 24 2003  
Group 3700

SHEET 2 OF 2

FORM PTO-1449		DOCKET NUMBER FGT 394 (202-0407)		APPLICATION NUMBER 10/064,016		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		APPLICANTS David Karl Bidner and Gopichandra Surnilla				
		FILING DATE June 4, 2002		GROUP ART UNIT 3747		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
HHH	6,247,445	06-2001	Langer			
	2001/0011540	08-2001	Mashiki			
	6,349,710 B1	02-2002	Kawai et al.			
	6,367,443	04-2002	Bassi et al.			
	6,382,193	05-2002	Boyer et al.			
	6,389,806	05-2002	Glugla et al.			
	6,408,618	06-25-2002	Ide			
	6,415,601	07-2002	Glugla et al.			
	6,513,509 B1	02-2003	Matsumoto			
	6,546,910	04-2003	Tanaka et al.			
	6,568,177 B1	05-2003	Surnilla			
HHH	6,619,241 B2	09-2003	Otterspeer et al.			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
OTHER DOCUMENTS						
EXAMINER HAI HUYNH			DATE CONSIDERED 8/23/05			

RECEIVED

NOV 24 2003

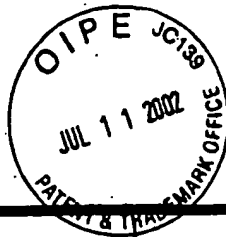
Group 3700



SHEET 1 OF 1

FORM PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER FGT 394 (202-0407)		APPLICATION NUMBER 10/064,016		
		APPLICANTS David Karl Bidner and Gopichandra Surnilla				
		FILING DATE June 4, 2002		GROUP ART UNIT 3747		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
HAH	3,696,618	10-10-1972	Boyd et al.			
HAH	5,992,142	11-30-1999	Pott			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
HAH	55-49549	04-10-1980	JP			X
HAH	55-29002	03-01-1980	JP			X
OTHER DOCUMENTS						
EXAMINER HAH HUYNH			DATE CONSIDERED 8/23/05			





Substitute for form 1449A/PTO

Complete if Known

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS

(use as many sheets as necessary)

Sheet 1 of 7

Application Number	To be assigned 10/064084
Filing Date	Herewith 6-4-02
Applicants	Surnilla
Group Art Unit	
Examiner Name	
Attorney Docket Number	202-0401

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
HAH		3,696,318		Boyd et al	10-10-72	
		3,969,932		Rieger et al	07-20-76	
		4,033,122		Masaki et al	07-05-77	
		4,178,883		Herth	12-18-79	
		4,251,989		Norimatsu et al	02-24-81	
		4,622,809		Abthoff et al	11-18-86	
		4,854,123		Inoue et al	08-08-89	
		4,884,066		Miyata et al	11-28-89	
		4,913,122		Uchida et al	04-03-90	
		5,009,210		Nakagawa et al	04-23-91	
		5,088,281		Izutani et al	02-18-92	
		5,097,700		Nakane	03-24-92	
		5,165,230		Kayanuma et al	11-24-92	
		5,174,111		Nomura et al	12-29-92	
		5,189,876		Hirota et al	03-02-93	
		5,201,802		Hirota et al	04-13-93	
		5,209,061		Takeshima	05-11-93	
HAH		5,222,471		Stueven	06-29-93	

RECEIVED

JUL 12 2002

TECHNOLOGY CENTER R3700

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	Foreign Patent Document			NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				
HAH		DE	196 07 151 C1		Siemens AG	07-10-97		
		EP	0 351 197 A2		Johnson Matthey	01-17-90		
HAH		EP	0 444 783 A1		Lucas Industries	09-04-91		

EXAMINER

HAH HUYNH

DATE CONSIDERED

8/23/02

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS

(use as many sheets as necessary)

Complete if Known

Application Number To be assigned 10/06/00 <sup>16</sup>

Filing Date Herewith 6-4-02

Applicants Sumilla

Group Art Unit

Examiner Name

Attorney Docket Number 202-0401

Sheet 2 of 7

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
HHH		5,233,830		Takeshima et al	08-10-93	
		5,267,439		Raff et al	12-07-93	
		5,270,024		Kasahara et al	12-14-93	
		5,272,871		Oshima et al	12-28-93	
		5,325,664		Seki et al	07-05-94	
		5,331,809		Takeshima et al	07-26-94	
		5,335,538		Blischke et al	08-09-94	
		5,357,750		Ito et al	10-25-94	
		5,377,484		Shimizu	01-03-95	
		5,402,641		Katoh et al	04-04-95	
		5,412,945		Katoh et al	05-09-95	
		5,412,946		Oshima et al	05-09-95	
		5,414,994		Cullen et al	05-16-95	
		5,423,181		Katoh et al	06-13-95	
		5,433,074		Seto et al	07-18-95	
		<del>5,437,463</del>		<del>Takeshima et al</del>	<del>08-01-95</del>	
		5,448,887		Takeshima	09-12-95	
HHH		5,450,722		Takeshima et al	09-12-95	

RECEIVED

JUL 12 2002

TECHNOLOGY CENTER R3700

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	Foreign Patent Document		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	7 <sup>d</sup>
		Office <sup>3</sup>	Number <sup>4</sup>				
HHH		JP	2-207159	Toyota	08-16-90		
		JP	2-30915	Toyota	02-01-90		
		JP	2-33408	Toyota	02-02-90		
		JP	3-135417	Matsushita Elec.	06-10-91		
HHH		JP	5-106493	Honda	04-27-93		

EXAMINER

HA1 HUYNH

DATE CONSIDERED 8/23/02

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.  
Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.  
<sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

Complete if Known

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS

Application Number To be assigned 10/004000  
 Filing Date Herewith 6-4-02  
 Applicants Sumilla  
 Group Art Unit   
 Examiner Name   
 Attorney Docket Number 202-0401

(use as many sheets as necessary)

Sheet 3 of 7

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cita No. 1	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
HHH		5,472,673		Goto et al	12-05-95	
		5,473,887		Takeshima et al	12-12-95	
		5,473,890		Takeshima et al	12-12-95	
		5,483,795		Katoh et al	01-16-96	
		5,544,482		Matsumoto et al	08-13-96	
		5,551,231		Tanaka et al	09-03-96	
		5,577,382		Kihara et al	11-26-96	
		5,595,060		Togai et al	01-21-97	
		5,598,703		Hamburg et al	02-04-97	
		5,622,047		Yamashita et al	04-22-97	
		5,655,363		Ito et al	08-12-97	
		5,657,625		Koga et al	08-19-97	
		5,693,877		Ohsuga et al	12-02-97	
		5,713,199		Takeshima et al	02-03-98	
		5,715,679		Asanuma et al	02-10-98	
		5,724,808		Ito et al	03-10-98	
		5,732,554		Sasaki et al	03-31-98	
HHH		5,735,119		Asanuma et al	04-07-98	

RECEIVED

JUL 12 2002

TECHNOLOGY CENTER R3700

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cita No. 1	Foreign Patent Document			NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office <sup>2</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
HHH		JP	5-108494		Honda	04-27-93		
		JP	5-26080		Mitsubishi Motors	02-02-93		
		JP	62-117620		Nippon Shokubai	05-29-87		
		JP	6-284787		Nissan Motor	09-20-94		
HHH		JP	62-97630		Nippon Shokubai	05-07-87		

EXAMINER

HA1 HILYNIT

DATE CONSIDERED 8/23/05

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS

(use as many sheets as necessary)

Sheet 4 of 7

Complete if Known

Application Number To be assigned 10/024007  
 Filing Date Herewith 6-4-02  
 Applicants Sumilla  
 Group Art Unit   
 Examiner Name   
 Attorney Docket Number 202-0401

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
HHH		5,740,669		Kinugasa et al	04-21-98	
		5,743,084		Hepburn	04-28-98	
		5,746,049		Cullen et al	05-05-98	
		5,746,052		Kinugasa et al	05-05-98	
		5,752,492		Kato et al	05-19-98	
		5,792,436		Feeley et al	08-11-98	
		5,842,340		Bush et al	12-01-98	
		5,865,027		Hanafusa et al	02-02-99	
		5,970,707		Sawada et al	10-26-99	
		5,974,793		Kinugasa et al	11-02-99	
		5,983,627		Asik	11-16-99	
		6,014,859		Yoshizaki et al	01-18-00	
		4,036,014		Ariga	07-19-77	
		4,964,272		Kayanuma	10-23-90	
		5,410,873		Tashiro	05-02-95	
		5,412,945		Kato et al	05-09-95	
		5,419,122		Tabe et al	05-30-95	
HHH		5,437,153		Takeshima et al	08-01-95	

RECEIVED

JUL 12 2002

TECHNOLOGY CENTER R3700

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	Foreign Patent Document			NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				
HHH		JP	64-53042		Mitsubishi	03-01-89		
		JP	6-58139		Nissan Motor	03-01-94		
		JP	7-97941		Kazuhiro et al	04-11-95		
		EP	0 354 497 A1		Johnson Matthey	01-17-90		
HHH		EP	0 503 882 A1		S. Takeshima	09-16-92		

EXAMINER

HAI HUYNH

DATE CONSIDERED

8/23/05

\*Examiner. Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

Complete if Known

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS

(use as many sheets as necessary)

Application Number To be assigned 10/004000  
 Filing Date Herewith 02-4-02  
 Applicants Surnilla  
 Group Art Unit  
 Examiner Name  
 Attorney Docket Number 202-0401

Sheet 5 of 7

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
HHH		5,452,576		Hamburg et al	09-26-95	
		<del>5,483,799</del>		<del>Kato et al</del>	<del>01-16-96</del>	
		5,626,014		Hepburn et al	05-06-97	
		5,626,117		Wright et al	05-06-97	
		<del>5,713,199</del>		<del>Takehima et al</del>	<del>02-03-98</del>	
		<del>5,715,079</del>		<del>Asanuma et al</del>	<del>02-10-98</del>	
		5,722,236		Cullen et al	03-03-98	
		5,771,685		Hepburn	06-30-98	
		5,771,686		Pischinger et al	06-30-98	
		5,778,666		Cullen et al	07-14-98	
		5,802,843		Kurihara et al	09-08-98	
		5,803,048		Yano et al	09-08-98	
		5,832,722		Cullen et al	11-10-98	
		5,938,715		Zang et al	08-17-99	
		5,974,788		Hepburn et al	11-02-99	
		5,974,791		Hirota et al	11-02-99	
		<del>5,992,142</del>		<del>Pett</del>	11-30-99	
HHH		5,996,338		Hirota	12-07-99	

RECEIVED

JUL 12 2002

TECHNOLOGY CENTER R3700

duplicated

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	Foreign Patent Document			NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office <sup>2</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
HHH		EP	0 580 389 A1		Toyota	01-26-94		
		WP	98/27322		Ford Motor Co.	08-25-98		
HHH		JP	7-168851		Toyota	06-27-95		

EXAMINER

HAI HUYNH

DATE CONSIDERED

8/23/05

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

## INFORMATION DISCLOSURE STATEMENT BY APPLICANTS

Sheet 6 of 7

Application Number

**~~To be assigned~~**

Filing Date

**Herewith**

## Applicants

### Sumilla

## Group Art Unit

**Examiner Name**

Attorney Docket Number	202-0401
------------------------	----------

## U.S. PATENT DOCUMENTS

[illegible]

~~JUL 12 2002~~

~~TECHNOLOGY CENTER R3700~~

**FOREIGN PATENT DOCUMENTS**

[illegible]

**EXAMINER**

DATE CONSIDERED

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 7 of 7

## Complete if Known

Application Number	To be assigned 10/064 016
Filing Date 6-4-02	Herewith 6-4-02
Applicants	Surnilla
Group Art Unit	
Examiner Name	
Attorney Docket Number	202-0398

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
HA		JOE THEIS et al, "An Air/Fuel Algorithm To Improve The NOx Conversion Of Copper-Based Catalysts", SAE Technical Paper No. 922251, October 19-22, 1992, pp. 77-89.	
		Y. KANEKO et al, "Effect of Air-Fuel Ratio Modulation on Conversion Efficiency of Three-Way Catalysts", INTER-INDUSTRY EMISSION CONTROL PROGRAM 2 (IIEC-2) PROGRESS REPORT NO. 4, SAE Technical Paper No. 780607, June 5-9, 1978, pp. 119-127.	
		ALAN F. DIWELL, "Engineered Control Strategies For Improved Catalytic Control of NOx in Lean Burn Applications", SAE Technical Paper No. 881595, 1998, pp. 1-11.	
		ALLEN H. MEITZLER, "Application of Exhaust-Gas-Oxygen Sensors to the Study of Storage Effects in Automotive Three-Way Catalysts", SAE 800019, February 25-29, 1980.	
		W.H. HOLL, "Air Fuel Control to Reduce Emissions, I. Engine-Emissions Relationships", SAE 800051, February 25-29, 1980.	
		WEI-MING WANG, "Air-Fuel Control to Reduce Emissions, II. Engine-Catalyst Characterization Under Cyclic Conditions", SAE 800052, February 25-29, 1980.	
		CHRISTOPHER D. DE BOER et al, "Engineered Control Strategies for Improved Catalytic Control of NOx in Lean Burn Applications", SAE 881595, October 10-13, 1988.	
HA		TOSHIAKI YAMAMOTO et al, "Dynamic Behavior Analysis of Three Way Catalytic Reaction", JSAE 882072 - 882166	

JUL 12 2002  
TECHNOLOGY CENTER R3700

EXAMINER

HA 1 HUYNH

DATE CONSIDERED

8/23/05

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.



#2

Substitute for form 1449A/PTO

Complete If Known

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS

(use as many sheets as necessary)

Sheet 1 of 7

Application Number

To be assigned

Filing Date

Herewith

Applicants

Sumilla; Bidner

Group Art Unit

Examiner Name

Attorney Docket Number

202-0407

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Re- Figures Appear
HHH		3,696,318		Boyd et al	10-10-72	
		3,969,932		Rieger et al	07-20-76	
		4,033,122		Masaki et al	07-05-77	
		4,178,883		Herth	12-18-79	
		4,251,989		Norimatsu et al	02-24-81	
		4,822,809		Abthoff et al	11-18-86	
		4,854,123		Iqoue et al	08-08-89	
		4,884,066		Miyata et al	11-28-89	
		4,913,122		Uchida et al	04-03-90	
		5,009,210		Nakagawa et al	04-23-91	
		5,088,281		Izutani et al	02-18-92	
		5,097,700		Nakane	03-24-92	
		5,165,230		Kayanuma et al	11-24-92	
		5,174,111		Nomura et al	12-29-92	
		5,189,876		Hirota et al	03-02-93	
		5,201,802		Hirota et al	04-13-93	
		5,209,061		Takeshima	05-11-93	
HHH		5,222,471		Stueven	06-29-93	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	Foreign Patent Document			NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
HHH		DE	198 07 151 C1		Siemens AG	07-10-97	
		EP	0 351 197 A2		Johnson Matthey	01-17-90	
HHH		EP	0 444 783 A1		Lucas-Industries	09-04-91	

EXAMINER

HAI HUYNH

DATE CONSIDERED

8/23/95

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not consid. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number.

<sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

<sup>3</sup>Enter Office that issued the

document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede

serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

\*Applicant is to place a check mark here if English language Translation is attached.

204090-91049001

duplicate

Substitute for form 1449A/PTO

Complete if Known

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS

(use as many sheets as necessary)

Sheet 2 of 7

Application Number

To be assigned

Filing Date

Herewith

Applicants

Sumilla; Bidner

Group Art Unit

Examiner Name

Attorney Docket Number

202-0407

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear
HHH		5,233,830		Takeshima et al	08-10-93	
		5,267,439		Raff et al	12-07-93	
		5,270,024		Kasahara et al	12-14-93	
		5,272,871		Oshima et al	12-28-93	
		5,325,664		Seki et al	07-05-94	
		5,331,809		Takeshima et al	07-26-94	
		5,335,538		Bilschke et al	08-09-94	
		5,357,750		Ito et al	10-25-94	
		5,377,484		Shimizu	01-03-95	
		5,402,641		Kato et al	04-04-95	
		5,412,945		Kato et al	05-09-95	
		5,412,946		Oshima et al	05-09-95	
		5,414,994		Cullen et al	05-16-95	
		5,423,181		Kato et al	06-13-95	
		5,433,074		Seto et al	07-18-95	
		5,437,153		Takeshima et al	08-01-95	
		5,448,887		Takeshima	09-12-95	
HHH		5,450,722		Takeshima et al	09-12-95	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	Foreign Patent Document		Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>				
HHH		JP	2-287159		Toyota	08-16-90	
		JP	2-30915		Toyota	02-01-90	
		JP	2-33408		Toyota	02-02-90	
		JP	3-135417		Matsushita Elec.	08-10-91	
HHH		JP	5-106493		Honda	04-27-93	

EXAMINER

HAI HUYN H

DATE CONSIDERED

8/23/05

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not consid  
Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449A/PTO

Complete if Known

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS

(use as many sheets as necessary)

Sheet 3 of 7

Application Number

To be assigned

Filing Date

Herewith

Applicants

Sumilla; Bidner

Group Art Unit

Examiner Name

Attorney Docket Number

202-0407

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Figures Appear
HAH		5,472,673		Goto et al	12-05-95	
		5,473,887		Takeshima et al	12-12-95	
		5,473,890		Takeshima et al	12-12-95	
		5,483,795		Katoh et al	01-16-96	
		5,544,482		Matsumoto et al	08-13-96	
		5,551,231		Tanaka et al	09-03-96	
		5,577,382		Kihara et al	11-26-96	
		5,595,060		Togai et al	01-21-97	
		5,598,703		Hamburg et al	02-04-97	
		5,622,047		Yamashita et al	04-22-97	
		5,655,363		Ito et al	08-12-97	
		5,657,625		Koga et al	08-19-97	
		5,693,877		Ohsuga et al	12-02-97	
		5,713,199		Takeshima et al	02-03-98	
		5,715,679		Asanuma et al	02-10-98	
		5,724,808		Ito et al	03-10-98	
		5,732,554		Sasaki et al	03-31-98	
HAH		5,735,119		Asanuma et al	04-07-98	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	Foreign Patent Document		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>			
HAH		JP	5-106494	Honda	04-27-93	
		JP	5-26080	Mitsubishi Motors	02-02-93	
		JP	62-117620	Nippon Shokubai	05-29-87	
		JP	6-264787	Nissan Motor	09-20-94	
HAH		JP	62-97630	Nippon Shokubai	05-07-87	

EXAMINER

HAH HUYN H

DATE CONSIDERED

8/27/01

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not consider Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANTS

(use as many sheets as necessary)

Sheet 4 of 7

Complete if Known

Application Number	To be assigned
Filing Date	Herewith
Applicants	Surnilla; Bidner
Group Art Unit	
Examiner Name	
Attorney Docket Number	202-0407

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Rel Figures Appear
HHH		5,740,669		Kinugasa et al	04-21-98	
		5,743,084		Hepburn	04-28-98	
		5,746,049		Cullen et al	05-05-98	
		5,746,052		Kinugasa et al	05-05-98	
		5,752,492		Kato et al	05-19-98	
		5,792,436		Feeley et al	08-11-98	
		5,842,340		Bush et al	12-01-98	
		5,865,027		Hanafusa et al	02-02-99	
		5,970,707		Sawada et al	10-26-99	
		5,974,793		Kinugasa et al	11-02-99	
		5,983,627		Asik	11-16-99	
		6,014,859		Yoshizaki et al	01-18-00	
		4,036,014		Ariga	07-19-77	
		4,964,272		Kayanuma	10-23-90	
		5,410,873		Tashiro	05-02-95	
		5,412,945		Katoh et al	05-08-95	
		5,419,122		Tabe et al	05-30-95	
HHH		5,437,153		Takeshima et al	08-01-95	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	Foreign Patent Document		NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>			
HHH		JP	84-53042	Mitsubishi	03-01-89	
		JP	6-58139	Nissan Motor	03-01-84	
		JP	7-87941	Kazuhiko et al	04-11-95	
		EP	0 351 197 A1	Johnson Matthey	01-17-90	
HHH		EP	0 603 882 A1	S. Takeshima	09-16-92	

EXAMINER

HAI HUYNH

DATE CONSIDERED

8/23/05

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANTS

(use as many sheets as necessary)

Sheet 5 of 7

Complete if Known

Application Number	To be assigned
Filing Date	Herewith
Applicants	Sumilla; Bidner
Group Art Unit	
Examiner Name	
Attorney Docket Number	202-0407

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	DOCUMENT NUMBER	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Figures Appear
HHH		5,452,576		Hamburg et al	09-26-95	
		5,483,795		Katoh et al	01-16-96	
		5,626,014		Hepburn et al	05-06-97	
		5,626,117		Wright et al	05-06-97	
		5,713,199		Takeshima et al	02-03-98	
		5,715,679		Asanuma et al	02-10-98	
		5,722,236		Cullen et al	03-03-98	
		5,771,685		Hepburn	06-30-98	
		5,771,686		Pischinger et al	06-30-98	
		5,778,666		Cullen et al	07-14-98	
		5,802,843		Kurihara et al	09-08-98	
		5,803,048		Yano et al	09-08-98	
		5,832,722		Cullen et al	11-10-98	
		5,938,715		Zang et al	08-17-99	
		5,974,788		Hepburn et al	11-02-99	
		5,974,791		Hirota et al	11-02-99	
		5,922,142		Pott	11-30-99	
HHH		5,998,338		Hirota	12-07-99	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. 1	Foreign Patent Document	Kind Code <sup>2</sup> (if known)	NAME	DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
HHH		EP 0 580 389 A1		Toyota	01-28-94	
		WP 98/27322		Ford Motor Co.	06-25-98	
HHH		JP 7-166851		Toyota	06-27-95	

EXAMINER

HAI HUYNH

DATE CONSIDERED

8/23/05

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not consid  
Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede serial number of the patent document. <sup>5</sup>End of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

10064016-060402



Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Sheet 7 of 7

Application Number To be assigned

Filing Date Herewith

Applicants Sumilla; Bidner

Group Art Unit

Examiner Name

Attorney Docket Number 202-0407

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
HHH		JOE THEIS et al, "An Air/Fuel Algorithm To Improve The NOx Conversion Of Copper-Based Catalysts", SAE Technical Paper No. 922251, October 19-22, 1992, pp. 77-89.
		Y. KANEKO et al, "Effect of Air-Fuel Ratio Modulation on Conversion Efficiency of Three-Way Catalysts", INTER-INDUSTRY EMISSION CONTROL PROGRAM 2 (IEC-2) PROGRESS REPORT NO. 4, SAE Technical Paper No. 780607, June 5-9, 1978, pp. 118-127.
		ALAN F. DIWELL, "Engineered Control Strategies For Improved Catalytic Control of NOx in Lean Burn Applications", SAE Technical Paper No. 881595, 1988, pp. 1-11.
		ALLEN H. MEITZLER, "Application of Exhaust-Gas-Oxygen Sensors to the Study of Storage Effects in Automotive Three-Way Catalysts", SAE 800019, February 25-29, 1980.
		W.H. HOLL, "Air Fuel Control to Reduce Emissions, I. Engine-Emissions Relationships", SAE 800051, February 25-29, 1980.
		WEI-MING WANG, "Air-Fuel Control to Reduce Emissions, II. Engine-Catalyst Characterization Under Cyclic Conditions", SAE 800052, February 25-29, 1980.
		CHRISTOPHER D. DE BOER et al, "Engineered Control Strategies for Improved Catalytic Control of NOx in Lean Burn Applications", SAE 881595, October 10-13, 1988.
HHH		TOSHIAKI YAMAMOTO et al. "Dynamic Behavior Analysis of Three Way Catalytic Reaction", JSAE 882072 - 882166

EXAMINER

H A I HUYA/H

DATE CONSIDERED

8/23/05

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not consider copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

10064015-050407

duplicate

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☒ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**